

# Nathan Gardner

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## **Objective**

To obtain an internship for Summer 2022 in the field of computer engineering, preferably working with software but open to positions of any kind within the field. I am interested in computer programming and algorithmic problem solving.

## **Education**

### **Bachelor of Science in Computer Engineering**

Graduation Expected May 2023

Tennessee Technological University - Cookeville, TN

- Dean's List: Fall 2019, Spring 2020, Fall 2020, Spring 2021

## **Engineering Experience**

### **Resilient Autonomous Networked Control Systems Laboratory - Cookeville, TN**

#### **Research Assistant**

August 2021 - Present

- Team testing for vulnerabilities in autonomous vehicle control systems
- Interfacing Camera, LIDAR, RADAR technologies with computer vision algorithms
- Focused on injecting faults to test current systems against false data injection attacks

### **Continental Tire - Mount Vernon, IL**

#### **Plant Engineering Intern**

May 2021 - August 2021

#### **Controls and Drives (Digital Services) Department**

- Developed monitoring software using C#.NET core for use in manufacturing process monitoring
- Experience in development operations deployment: docker containerization of software for use on local server for 24/7 data monitoring
- Assisted in networking and programming related tasks and helped ensure the plant ran effectively

### **Tennessee Tech University - Cookeville, TN**

#### **Teaching Assistant, Unix Laboratory**

January 2021 - May 2021

- Assisting instructor in course delivery, including topics such as BASH scripting and the Linux/Unix operating system
- Assisting students with questions on weekly Unix-based labs

## **Organizations**

### **Institute of Electrical and Electronics Engineers (IEEE), TTU Chapter - Cookeville, TN**

#### **Officer, Social Chair**

May 2021 - Present

- Plan IEEE social events on campus and network with community members the spread the word about the IEEE mission on campus
- Foster community and involvement on campus around IEEE and the electrical and computer engineering department
- IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity

#### **Officer, Treasurer**

August 2020 - May 2021

- Responsible for all monetary bookkeeping within the club
- Meet professionals in various subfields of engineering

#### **Active Member**

August 2019 - Present

## **Skills**

- C/C#/C++ • Linux/Unix systems • Git • VHDL • MATLAB •

## **Relevant Coursework**

• Electric Circuits I & II • Electronics I • Signals and Systems • Microcomputer Systems • Digital System Design • Data Structures and Algorithms • Design & Analysis of Algorithms • Calculus I & II & III • Probability and Statistics •